Title (en)

QPSK demodulation with soft outputs for third generation TDD systems

Title (de)

QPSK-Demodulation mit weichen Ausgängen für TDD-Systeme dritter Generation

Title (fr)

Démodulation MDPQ à sorties douces pour systèmes de la troisième génération à duplex par division en temps

Publication

EP 1478147 A2 20041117 (EN)

Application

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Priority

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Abstract (en)

A QPSK demodulation method and apparatus for a soft output in a 3G TDD HCR/LCR system calculates a position of a receiving symbol on a constellation and phase shifts the calculated symbol position. The phase shifted symbol position is then calculated, and the result is amplitude compensated. A soft output of an I component is calculated by subtracting an I component value and Q component value of the calculated symbol position, and a soft output of a Q component is calculated by adding I component value and Q component value. Thus, soft outputs of receiving bit data can be obtained from a simple calculation in QPSK demodulation of the TDD system. <IMAGE>

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H04L 27/22

IPC 8 full level

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